01/25/2006 15:07 FAX

Listing of Claims:

Claims 1-9 (Canceled).

10. (currently amended) A method of producing a transgenic mouse comprising:

(a) introducing a vector into a mouse embryo or a mouse ES cell and transferring said

ES cell into a zygote;

(b) transferring said embryo or said zygote comprising said ES cell into a

pseudopregnant female mouse;

(c) allowing said embryo or zygote to develop into an offspring;

(d) selecting an offspring that expresses said agouti cDNA and has a coat color

phenotype;

wherein said vector comprises: a first transgene expression cassette comprising mouse

agouti cDNA operably linked to a human keratinoyte specific K14 promoter, a second

transgene expression cassette comprising RNA polymerase II large subunit promoter,

and a chicken beta-globulin HS4 insulator; wherein said insulator and said first

transgene expression cassette are located at the 5' or 3' end of said second transgene

expression cassette; the number of copies of said chicken beta-globin HS4 insulator is

1-6; and said insulator is in the same or opposite orientation relative said to said first

and second transgene expression cassettes in said vector.

11. (Previously presented) A vector comprising a first transgene expression cassette

comprising mouse agouti cDNA operably linked to a human keratinoyte specific K14

promoter, a second transgene expression cassette comprising RNA polymerase II large

subunit promoter, and a chicken beta-globulin HS4 insulator; wherein said insulator and said first <u>transgene</u> expression cassette are located at the 5' or 3' end of said second transgene expression cassette; the number of copies of said chicken beta-globin HS4 insulator is 1-6; and said insulator is in the same or opposite orientation relative said to said first and second <u>transgene</u> expression cassettes in said vector.

Claims 12-17 (canceled).

- 18. (Currently amended) A method of producing a transgenic mouse comprising:
- (a) introducing a vector into a mouse embryo or a mouse ES cell and transferring said ES cell into a zygote;
- (b) transferring said embryo or said zygote comprising said ES cell into a pseudopregnant female mouse;
- (c) allowing said embryo or zygote to develop into an offspring;
- (d) selecting an offspring that expresses said mouse cDNA and has a coat color phenotype;

wherein said vector comprises: a dominant mouse coat color expression cassette first transgene expression cassette comprising mouse agouti cDNA operably linked to a promoter, a second transgene expression cassette comprising RNA polymerase II large subunit promoter, and a chicken beta-globulin HS4 insulator.

- 19. (Currently amended) The method of claim 18 wherein said dominant mouse-coat color-transgene-expression cassette comprises mouse agouti cDNA operably linked to promoter is a human keratinoyte specific K14 promoter.
- 20. (Currently amended) The method of claim 18 wherein said dominant mouse coat color transgene expression cassette comprises mouse cDNA operably linked to

promoter is a mouse tyrosinase promoter.

- 21. (Currently amended) The method of claim 18 wherein said insulator and said first transgene expression cassette are placed at the 5' or 3' end of said second transgene expression cassette.
- 22. (Previously presented) The method of claim 18 wherein the number of copies of said chicken beta-globin HS4 insulator is 1-6.
- 23. (Currently amended) The method of claim 18 wherein said insulator is in the same or opposite orientation relative to said first and second <u>transgene</u> expression cassettes.
- 24 (Currently amended) A vector comprising a-dominant-coat color expression cassette first transgene expression cassette comprising mouse agouti cDNA operably linked to a promoter, a second transgene expression cassette comprising RNA polymerase II large subunit promoter, and a chicken beta-globulin HS4 insulator.
- 25. (Currently amended) The vector of claim 24 wherein said deminant-racuse coat color-expression cassette-comprises mouse agouti cDNA operably linked to promoter is a human keratinoyte specific K14 promoter.
- 26. (Currently amended) The vector of claim 24 wherein said dominant-mouse coat color transgene expression cassette comprises mouse eDNA operably linked to promoter is a mouse tyrosinase promoter.
- 27. (Currently amended) The vector of claim 24 wherein said insulator and said first transgene expression cassette are placed at the 5' or 3' end of said second transgene expression cassette.
- 28. (Previously presented) The vector of claim 24 wherein the number of copies of said chicken beta-globin HS4 insulator is 1-6.

29. (Currently amended) The vector of claim 24 wherein said insulator is in the same or opposite orientation relative to said first and second <u>transgene</u> expression cassettes.